

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: KODET et al

Serial No. To Be Assigned

Filed: March 13, 2001

For: ISOLATED HUMAN TRANSPORTER  
PROTEINS, NUCLEIC ACID MOLECULES  
ENCODING HUMAN TRANSPORTER  
PROTEINS, AND USES THEREOF

Art Unit:

Examiner:

Atty. Docket: CL000891

SUBMISSION OF SEQUENCE LISTING  
UNDER 37 C.F.R. § 1.821(a)

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

In compliance with 37 C.F.R. § 1.821(a), applicants submit the Sequence Listing,  
including the paper copy of the Sequence Listing and the computer readable copy of the  
Sequence Listing.

**In the Specification:**

The Sequence Listing is provided on pages 63-105 of the specification in the  
above-identified application.


**REMARKS**

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the Sequence Listing and the computer readable copy of the Sequence Listing submitted herewith in the above application are the same.

It is respectfully believed that this application complies with the Sequence Listing requirements and is now in condition for processing.

Respectfully submitted,

CELERA GENOMICS

By:   
**Lin Sun-Hoffman**  
Reg. No. P-47,983

Date: March 13, 2000

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Rockville, MD 20850  
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Fax: 240-453-3084

## SEQUENCE LISTING

&lt;110&gt; KODET, Stefan et al

<120> ISOLATED HUMAN TRANSPORTER PROTEINS,  
NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
AND USES THEREOF

&lt;130&gt; CL000891

&lt;160&gt; 4

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 2782

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 1

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&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 2

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&lt;210&gt; 4

&lt;211&gt; 927

&lt;212&gt; PRT

&lt;213&gt; Rat

&lt;400&gt; 4

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Met Ala Trp Leu Arg Leu Gln Pro Leu Thr Ser Ala Phe Leu His Phe
1          5          10          15
Gly Leu Val Thr Phe Val Leu Phe Leu Asn Gly Leu Arg Ala Glu Ala
20          25          30
Gly Asp Leu Arg Asp Val Pro Ser Ala Gly Gln Asn Asn Glu Ser Cys
35          40          45
Ser Gly Ser Ser Asp Cys Lys Glu Gly Val Ile Leu Pro Ile Trp Tyr
50          55          60
Pro Glu Asn Pro Ser Leu Gly Asp Lys Ile Ala Arg Val Ile Val Tyr
65          70          75          80
Phe Val Ala Leu Ile Tyr Met Phe Leu Gly Val Ser Ile Ile Ala Asp
85          90          95
Arg Phe Met Ala Ser Ile Glu Val Ile Thr Ser Gln Glu Arg Glu Val
100         105         110
Thr Ile Lys Lys Pro Asn Gly Glu Thr Ser Thr Thr Thr Ile Arg Val
115         120         125
Trp Asn Glu Thr Val Ser Asn Leu Thr Leu Met Ala Leu Gly Ser Ser

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130 135 140  
 Ala Pro Glu Ile Leu Leu Ser Leu Ile Glu Val Cys Gly His Gly Phe  
 145 150 155 160  
 Ile Ala Gly Asp Leu Gly Pro Ser Thr Ile Val Gly Ser Ala Ala Phe  
 165 170 175  
 Asn Met Phe Ile Ile Ile Gly Ile Cys Val Tyr Val Ile Pro Asp Gly  
 180 185 190  
 Glu Thr Arg Lys Ile Lys His Leu Arg Val Phe Phe Val Thr Ala Ala  
 195 200 205  
 Trp Ser Val Phe Ala Tyr Ile Trp Leu Tyr Met Ile Leu Ala Val Phe  
 210 215 220  
 Ser Pro Gly Val Val Gln Val Trp Glu Gly Leu Leu Thr Leu Phe Phe  
 225 230 235 240  
 Phe Pro Val Cys Val Leu Leu Ala Trp Val Ala Asp Lys Arg Leu Leu  
 245 250 255  
 Phe Tyr Lys Tyr Met His Lys Arg Tyr Arg Thr Asp Lys His Arg Gly  
 260 265 270  
 Ile Ile Ile Glu Thr Glu Gly Glu His Pro Lys Gly Ile Glu Met Asp  
 275 280 285  
 Gly Lys Met Met Asn Ser His Phe Leu Asp Gly Asn Leu Ile Pro Leu  
 290 295 300  
 Glu Gly Lys Glu Val Asp Glu Ser Arg Arg Glu Met Ile Arg Ile Leu  
 305 310 315 320  
 Lys Asp Leu Lys Gln Lys His Pro Glu Lys Asp Leu Asp Gln Leu Val  
 325 330 335  
 Glu Met Ala Asn Tyr Tyr Ala Leu Ser His Gln Gln Lys Ser Arg Ala  
 340 345 350  
 Phe Tyr Arg Ile Gln Ala Thr Arg Met Met Thr Gly Ala Gly Asn Ile  
 355 360 365  
 Leu Lys Lys His Ala Ala Glu Gln Ala Lys Lys Thr Ala Ser Met Ser  
 370 375 380  
 Glu Val His Thr Asp Glu Pro Glu Asp Phe Ala Ser Lys Val Phe Phe  
 385 390 395 400  
 Asp Pro Cys Ser Tyr Gln Cys Leu Glu Asn Cys Gly Ala Val Leu Leu  
 405 410 415  
 Thr Val Val Arg Lys Gly Gly Asp Ile Ser Lys Thr Met Tyr Val Asp  
 420 425 430  
 Tyr Lys Thr Glu Asp Gly Ser Ala Asn Ala Gly Ala Asp Tyr Glu Phe  
 435 440 445  
 Thr Glu Gly Thr Val Val Leu Lys Pro Gly Glu Thr Gln Lys Glu Phe  
 450 455 460  
 Ser Val Gly Ile Ile Asp Asp Ile Phe Glu Glu Asp Glu His Phe  
 465 470 475 480  
 Phe Val Arg Leu Ser Asn Val Arg Val Glu Glu Glu Gln Leu Glu Glu  
 485 490 495  
 Gly Met Thr Pro Ala Ile Leu Asn Ser Leu Pro Leu Pro Arg Ala Val  
 500 505 510  
 Leu Ala Ser Pro Cys Val Ala Thr Val Thr Ile Leu Asp Asp Asp His  
 515 520 525  
 Ala Gly Ile Phe Thr Phe Glu Cys Asp Thr Ile His Val Ser Glu Ser  
 530 535 540  
 Ile Gly Val Met Glu Val Lys Val Leu Arg Thr Ser Gly Ala Arg Gly  
 545 550 555 560  
 Thr Val Ile Val Pro Phe Arg Thr Val Glu Gly Thr Ala Lys Gly Gly  
 565 570 575  
 Gly Glu Asp Phe Glu Asp Thr Tyr Gly Glu Leu Glu Phe Lys Asn Asp  
 580 585 590

Glu Thr Val Lys Thr Ile Arg Val Lys Ile Val Asp Glu Glu Glu Tyr  
 595 600 605  
 Glu Arg Gln Glu Asn Phe Phe Ile Ala Leu Gly Glu Pro Lys Trp Met  
 610 615 620  
 Glu Arg Gly Ile Ser Ala Leu Leu Leu Ser Pro Glu Val Thr Asp Arg  
 625 630 635 640  
 Lys Leu Thr Met Glu Glu Glu Ala Lys Arg Ile Ala Glu Met Gly  
 645 650 655  
 Lys Pro Val Leu Gly Glu His Pro Lys Leu Glu Val Ile Ile Glu Glu  
 660 665 670  
 Ser Tyr Glu Phe Lys Ser Thr Val Asp Lys Leu Ile Lys Lys Thr Asn  
 675 680 685  
 Leu Ala Leu Val Val Gly Thr His Ser Trp Arg Asp Gln Phe Met Glu  
 690 695 700  
 Ala Ile Thr Val Ser Ala Ala Gly Asp Glu Glu Glu Asp Glu Ser Gly  
 705 710 715 720  
 Glu Glu Arg Leu Pro Ser Cys Phe Asp Tyr Val Met His Phe Leu Thr  
 725 730 735  
 Val Phe Trp Lys Val Leu Phe Ala Cys Val Pro Pro Thr Glu Tyr Cys  
 740 745 750  
 His Gly Trp Ala Cys Phe Val Val Ser Ile Leu Ile Ile Gly Met Leu  
 755 760 765  
 Thr Ala Ile Ile Gly Asp Leu Ala Ser His Phe Gly Cys Thr Ile Gly  
 770 775 780  
 Leu Lys Asp Ser Val Thr Ala Val Val Phe Val Ala Phe Gly Thr Ser  
 785 790 795 800  
 Val Pro Asp Thr Phe Ala Ser Lys Ala Ala Ala Leu Gln Asp Val Tyr  
 805 810 815  
 Ala Asp Ala Ser Ile Gly Asn Val Thr Gly Ser Asn Ala Val Asn Val  
 820 825 830  
 Phe Leu Gly Ile Gly Leu Ala Trp Ser Val Ala Ala Ile Tyr Trp Ala  
 835 840 845  
 Met Gln Gly Gln Glu Phe His Val Ser Ala Gly Thr Leu Ala Phe Ser  
 850 855 860  
 Val Thr Leu Phe Thr Ile Phe Ala Phe Val Cys Leu Ser Val Leu Leu  
 865 870 875 880  
 Tyr Arg Arg Arg Pro His Leu Gly Gly Glu Leu Gly Gly Pro Arg Gly  
 885 890 895  
 Cys Lys Leu Ala Thr Thr Trp Leu Phe Val Ser Leu Trp Leu Leu Tyr  
 900 905 910  
 Val Leu Phe Ala Thr Leu Glu Ala Tyr Cys Tyr Ile Lys Gly Phe  
 915 920 925